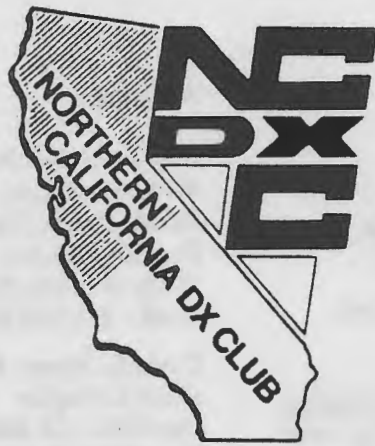


# THE



# DXer

DECEMBER 1988

VOL XLI - NUMBER 12

THE DECEMBER  
1948 DX'ER



NORTHER CALIFORNIA DX CLUB, INC

OAKLAND CALIFORNIA

## DECEMBER 1988

### VOL XLI - NUMBER 12

#### November Events

Dec. 9 - Regular meeting of the NCDXC, Palo Alto.

Dec. 2-5 - ARRL 160 Meter contest.

Dec. 9-11 - ARRL 10 Meter contest.

Jan. 3 - Deadline for January DXer input.

#### December Meeting

Friday, December 9th will be the next regular meeting of the NCDXC. The meeting will start at about 6:00 PM for dinner and at 7:00 PM for the business meeting and guest roaster. The club will be supplying wine for each table to help with the festivities.

The evenings host/roaster will be Jim Maxwell, W6CF. Jim will encourage audience participation regarding folklore about past DX events and escapades of our members and those we have worked. You are all encouraged to jot down a "story" about your self, fellow members and/or DXpeditions and pass them on to Jim. It would be convenient for Jim to get these notes before the meeting, but if not, pass them to Jim at the meeting. Any relationship to factual history is not necessarily a requirement for the "stories".

The meeting will be held at Harry's Hofbrau in Palo Alto, near the Palo Alto airport.

#### DX CONVENTION

The Convention will be held at the Visalia, CA, Plaza Park Holiday Inn from 21 through 23 April 1989. The Holiday Inn is already sold out for the convention weekend. The Lamplighter and other nearby motels are still available (I don't have their numbers, sorry).

Advance registration may be made through KE6ZE (David Engle, 1063 Summerwood Ct., San Jose CA 95132) and a SAE would be appreciated. Advance registration fee is \$ 40 (\$ US) until 20 March 1989. Make checks payable to "1989 International DX Convention".

#### ROSTER UPDATES

The NCDXC welcomes the following new Club members: W6IEC, Chuck Alessi; WJ60, Tommy Farr; WD6DF, Warren Edwards; KI6SC, Henry Drechsler; WU6I, David Moser; W6XB, Ken Crandall; KI6YB, Charlie Southall.

#### Addresses:

Charles M. Southall, KI6YB, Extra  
4076 Sunset Lane  
Pebble Beach, CA 93953  
Res: 408/625-3651  
Wkdy eve: 415/781-8345  
Work: 415/989-1000

David R. Moser, WU6I, Extra  
18833 Lexington  
Dos Palos, CA 93620  
Res: 209/392-2421  
Work: 209/392-6333

Kenneth C. Crandall, W6XB, Extra  
615 Port Dr #207  
San Mateo, CA 94404  
Res: 415/341-6499  
Work: 408/747-0300

Henry A. Drechsler, KI6SC, Advanced  
377 Avenida Del Roble  
San Jose, CA 95123  
Res: 408/225-4928

Warren W. Edwards, WD6HDF, Advanced  
1286 Mt. Hermon Rd.  
Santa Cruz, CA 95066  
Res: 408/335-3321

Thomas A. Farr, WJ6O, Extra  
640 Northside Ct.  
Turlock, CA 95380  
Res: 209/668-1633  
Work: 209/668-5590

Charles M. Alessi, W6IEG, Extra  
P.O. Box 1244  
Oakhurst, CA 93644  
Res: 209/683-8430

#### Change of Address for Club Members:

Mike Ritz, KW6C  
172 Hamilton Ave.  
Mtn. View, CA 94043

Roger Gearhart, W6PKB  
614 Park Rd.  
Redwood City, CA 94062  
Res: 415/364-7504  
Work: 408/926-2709 (same)

Tom, K6TS

## from the December 1948 DXer

*Some info from Herb, W6QD.*

Norfolk Island is about to be added as a country. That is its hoped that CQ and QST come to some agreement on this. The guy in question hangs around on the low end of 20 in the a.m. around 8 a.m. Call VK9NR.

Nothing on ISREAL being a separate country. As Herb puts it: "If they can't agree on the boundaries over there, howinell can a little mag like CQ say anything!!"

So for now, Isreal is still part of Palestine as far as our country lists go.

*LU1ZA Controversy still on.*

Heres the CQ version of why they are counting LU1ZA as a country!

They are counted the same as any other South Orkney Station. For their dough when you work LU1Z you work a station on South Orkney. You don't work Argentina... Nor do you work a ship or boat or plane. Apparently the British don't control it enough to kick the guy off the air.. And there are more books that give joint claim to the Island than just British only.. So there!!!

Dunno but what we don't agree with Herb.. After all there are a slew of of the club gang that worked LU1ZA and would certainly like to count him as South Orkney.

*The Southern Calif. DX Club..  
From Don Wallace W6AM*

The S.C.DX Club met in November with 50 present., and elected a temporary committee: ANN, DFY, GHU and IBD. The first draft requires of its members a DXCC or WAZ Certificate. Each member may sponsor an Associate member who has at least 50 Countries. The first dinner meeting occurred Wednesday December 1, at Clinton's Cafeteria in L.A.

We say, WELCOME to the L.A. gang and we will be very glad to co-operate in any way possible and in the event that they have a news similar to ours will be glad to exchange same each month.

*W6PB, editor 1948 DXer*

Northern California DX Club, *DXER*

## de KE6ZE

Once again, some material from a past *DXER* has been included in this issue. The 1948 DX country questions sound familiar, just the locations have been changed. It is rather humorous to see some form of the same issues still with us. It is also interesting to read Don Wallace's note on the formation of the SCDXC.

Your editor has received several favorable comments about the *DXER* content. So, future *DXERs* will continue to carry something from the early years.

The DX ladder maintained by Jim Hicks, KK6X, re-appears in this issue. The DX ladders will be printed 3-4 times a year, as space permits. Jim has been keeping up the ladders for several years and with a new job change he is running short of time. Accordingly, if somebody out there has the time, Jim would like to pass on the maintenance of the DX ladders. If you can take over the job, contact Jim at his home address (listed in the credits in the back of this issue).

*Best wishes to you all, have a merry Christmas and a happy New Year. Ron, W6VG and Dave, KE6ZE*

## The Fox Doctor Cometh.....W8MEP

*or, "How King Fox Arthur Became a Pure DXer"*

Once upon a time in a land of free DXers called Californius Copernicus, there was an (elected) (enthroned) emporer DXer who was (esconced) (enthorned) in his (office) (castle) (dungeon) on the shores of the Oceanus Pacificus. He was (charged) (empowered) with the awesome (powers) (responsibilities) of (governance) (leadership) (management) of this (group) (rabble) (mob) of (subjects) (copulators) (DXers). His name was King Fox Arthur. He was married to Queen Fox Maude. King Fox Arthur loved DXing and often went to the dungeon to make sparks and communicate with the next castle. Queen Fox Maude did not like his DXing, but there were also other problems. If a problem was too big for King Fox Arthur's mental prowess, he did exactly what his predecessors did: father a group of fellow (DXers) (Sages) (Wise Men) into what was called a (gang) (thinkers)

December 1988

(committee), for King Fox Arthur of course knew that six heads are better than two. Committees had already created the dromedary, the avocado seed, the The Gong Show, to say nothing of the Edsel, Social Security, THE VISALIA (VALHALLA) TRYST, and Repeater Enhancement. With the (groups) (thinkers) (committees) doing some of the work, King Fox Arthur felt he had plenty of time to go (rooting) (snorting) (DXing) in the Dungeon.

But Queen Fox Maude had already noticed something so far unnoticed by others: one obscure (gang) (thinkers) (committee) left over from a previous (fifedom) (administration) was actively at work with one of the above (remnants) (chores) (charges) - the Repeater Enhancement. Their work went on unnoticed until it ground to a halt. Said King Fox Arthur to Queen Fox Maude, "I say, I know not how to (stimulate) (motivate) this repeater (gang) (rabble) to finish their charge timely." (It so turns out that King Fox Arthur was ditzling young Lady at Yorke Fox during some of his dungeon sparking events, and Queen Fox Maude at the same time was being ditzled by the (leader) (chairman) of the repeater (gang) (rabble) while King Fox Arthur was in the dungeon!) King Fox Arthur did not know about Queen Fox Maude's ditzling, but she was wisely aware of his! When he came to her with his plight, she became very (angry) (poisonous) (beside herself) and did something (low) (painful) (gonadal) to King Fox Arthur, who cried in pain when he recognized he was the first orchietomy of record! In his pain and beside himself with pressure from the other free DXers, he ran over to the leader of the repeater (gang) (rabble) and inflicted (exquisite) (surgical) (gonadal) pain upon him! "Now we will both be singular in our purpose," he cried, "and you can finish your projects, and I will get back to DXing!" But, alas, the Queen Fox Maude in learning about this sequence of events on her especially (compressed) (coded) (burst of bits) (bat packet) repeater drum, cried to the (Heavens) (ionosphere) (E-layer), "God, will get you for this!"

And so, she became a nun beside young Lady at Yorke Fox, never to be seen in the (castle) (shack) again. The leader of the repeater (gang) (rabble) went on to rapidly complete

his task and King Fox Arthur merrily DXed in his dungeon. The free DXers lived happily after.

Moral of this story: Support your Prez and his committees--volunteer, don't gripe, make the repeater (gang) (rabble) proud by your encouragements and help! Prevent painful episodes.....

*Jerry, W8MEP*

P.S.

Great job calling out DX during the contest! Congrats!

Call Jim, W6CF, to see how you can contribute to the December meeting!

See you at Harry's!



Himself

## Error November DXer

The article in the November issue of the DXer concerning the NCDXC Memorial Contribution contained an error in the dollar amount stated. I should have written \$25.00 instead of the \$425.00 which was printed.

*Thanks, Tom K6TS*

## Treasurer's Report

November 1-30, 1988

### Checking Account Activity

September Checking Balance	\$5,284.95
Deposits from Dues	391.50
Other Receipts	601.00
Subtotal	\$6,277.45
Accounts Payable	- 901.85
<b>CURRENT BALANCE</b>	<b>\$5,370.60</b>

### Savings

Bank of America 11/17/88 (includes reserve for QSL purchase)	\$11,027.98
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American Savings & Loan	\$7,481.51
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Stan, K6MA

## Contest Chairman's Corner

It's official! The 1988 NCDXC Marathon results are in. And the winners are.....

### MIXED

1st	W6YHM	177 countries
2nd	K6YK	135 countries
3rd	W6BIP	133 countries
	N6JM	92 countries

There was quite a bit of contention in the SSB category. Now that the fur has settled from the catfight, we have....

### SSB

1st	WG6P	234 countries
2nd	W6BSY	215 countries
3rd	W6ITH	207 countries
	K6TMB	189 countries
	WD6EKR	149 countries

And, finally, in the CW category.....

### CW

1st	N6DJM	168 countries
2nd	K6RQ	138 countries
3rd	N6EA	135 countries
	K6TS	124 countries
	N6AN	110 countries
	K6WD	103 countries
	WC6I	76 countries

Congratulations to our 1988 winners, and to all who participated!

Northern California DX Club, *DXER*

## CQ World-Wide Contest 1988

By the time you read this DXer, the '88 CQ WW will be history. I have a limited supply of log and summary sheets for anyone needing them.

I will be submitting an NCDXC entry, as several members have sent in their summary sheets. Let's get the NCDXC score on the books and high up in the rankings! All sheets received by January 1, 1989, will be added to the Club score and sent in, so please get 'em in to me!

The ARRL International DX contest will be coming 'round again in February & March and this one is the official NCDXC effort. You saw how we beat the socks off Southern Cal in 1988 and we all had a blast doing it! I expect the great Kahuna will have more to say about this in next month's DXer.....

Bob, K4UVT



Life at the top (of the Honor Roll)?



Life at the bottom?

*"The Time Has Come,"  
the Walrus Said,  
"to Talk of Many Things ..."*



## Letters to the Editor

Facts, what facts? These are opinions expressed here. Any clod can have the facts, it is an art to have an opinion.

*Herb Cain, with some liberties taken.*

## Lloyd and Iris

Dear Friends, 7 November 1988

We have just completed our YASME DXpedition as W6KG/5B4 in Cyprus. We made some 4,000 QSO's with Amateurs in 133 different countries.

We left California a week before the CQ World-Wide SSB Contest and thought that we had plenty of time to be there before the contest started. We were wrong! We missed our

flight at Frankfurt, Germany, even though we were in the airport an hour before the flight, only to find that on international flights they now want all passengers to check in two hours before flight time. We had to wait 48 hours for the next flight.

In Cyprus we ran into extremely high winds that delayed us getting our antennas up for another 48 hours. 5B4TI, Mike, and 5B4WW, Mayam, were a great help to us in many ways including putting up antennas in high winds. We got on the air just minutes before the contest. All went well then, and we had a good operation on all bands. We worked 100 countries during the contest.

Our next operation will be from ZC4, using the call ZC4ZR. Watch for us on all bands, phone and CW.

73 es 88, Lloyd Colvin, W6KG, Iris Colvin, W6QL

## I Tried

When the Central California DX Club first formed, there were over 65 people from all over the valley who showed some interest in forming a Central California DX Club. Terry, N6UR, was kind to say we could use his repeater for DX Club meetings and DX announcements. The "DX Announcements" never got off the ground so to speak.

I thought that a good shot in the arm would be to have the W6TI/R repeater linked down to the 147.09 repeater. The link was established thanks to the work of Terry, N6UR. The idea I had in mind was to establish a "listening only" link first and then if the blood got flowing in the Club I was going to propose a two-way link (one step at a time). Unfortunately, the grumbling of "too much" DX announcements on the .09 machine has prevailed and it now appears this link is going to be shut down and done away with. The normal silence will be back on 147.09. I am disappointed in how things have turned out with this "DX Club". I tried.

I am looking for help in establishing a two-way packet link with the bay area. Some in the valley have expressed an interest. I have an IBM Compatible computer + printer, a 2M isopole at 110 ft. + KLM 2M beam just below that. Possibly a repeater sight is available for

linking. Any help would be appreciated. Equipment and money no problem, just tech assistance.

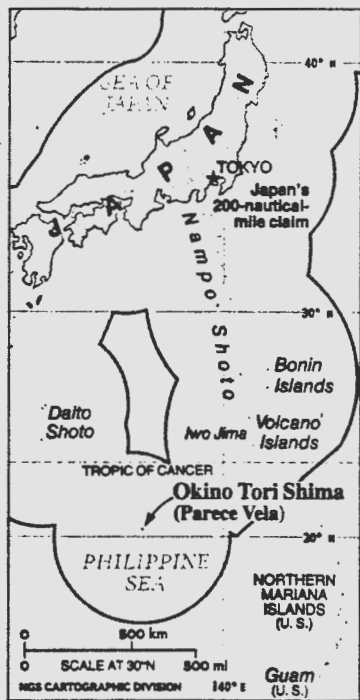
*Ron Hill, K6OZL, 209/584-8987*

## Okino Tori Shima

In a remote expanse of the Pacific Ocean 1,800 kilometers (1,118 miles) southwest of Tokyo in the path of typhoons, two rocks barely pierce the water's surface. But because they do, Japan claims exclusive fishing and undersea mining rights over a 400,000-square-kilometer (154,452-square-mile) area.

Rich deposits of cobalt and manganese may underlie the seabed around Okino Tori Shima--Island of the Offshore Birds. This and the voracious Japanese appetite for seafood make the area a prized part of the country's economy.

While low tide reveals a reef of coral and limestone, at high tide Okino Tori Shima almost disappears, shrinking to two rocks a mere 70 centimeters (27 inches) above the sea. Pounding waves threaten to erase them altogether.



The Law of the Sea states that an island must be above sea level at all times. Therefore, the Japanese government embarked on an ambitious multimillion-dollar construction project hoping to halt erosion. Last April, ships, helicopters, and several hundred workers converged on Okino Tori Shima and began to encircle the outcrops with walls composed of thousands of cast-iron tetrapod forms and concrete. By March 1990, the wave-absorbing barrier will guard Japan's southernmost point from disappearing under the unrelenting waves.

*National Geographic via NT6G*

## Unscrupulous Scanners

A repeater was recently "ripped off" in the South Bay. For this reason, never divulge the location of a repeater over the air. There could be unscrupulous persons on scanners listening for such information.

If someone asks for the repeater location, just give the city, but don't be too specific. For the same reason, it's not prudent to announce over the air that you will be on vacation or away from home for any reason.

*East Bay ARC, via WA6AHF*

## Malyj Vysotskij Island New DXCC Country

The ARRL Awards Committee has unanimously ACCEPTED the DX Advisory Committee majority decision recommendation to add Malyj Vysotskij Island (M-V Island) to the DXCC Countries list by virtue of a commitment ARRL made in 1970. Additionally, the Awards Committee unanimously ENDORSED the DXAC finding that the 4J1FS operation of July 1988 met the published accreditation criteria.

M-V Island, located in the bay of Vyborg, Western USSR, was found in 1970 to qualify as a separate DXCC country under Point 3(b) of the Countries List Criteria, and was awaiting activation. The island, leased by Finland from USSR, is separated from Finland (OH) by intervening Soviet territory.

In reviewing the accreditation of the 4J1FS operation, both the DSAC and the Awards Committee were troubled by the call sign prefix. In the course of discussion, however, it was the sense of the Awards Committee that M-V Island may very well have qualified under the now-defunct "separate administration" clause of the country criteria. (This clause was in effect when ARRL first approved M-V Island in 1970.) Under separate administration, the call sign would not have been an issue.

DXCC credit will be given for contacts made with Malyj Vysotskij Island commencing with the July 1988 4J1FS operation. DXCC credit will be issued starting March 1, 1989. QSL cards submitted before that date will be returned without credit.

For more information, contact Don Search at:  
 Telephone: 203/666-1541  
 Telefax: 203/665-7531  
 MCI Mail: 215-5052

ARRL DXAC via W6CF

## TURKEY

*(ed note: the following two messages were picked up from an electronic mail news network and are being passed on for your information)*

Anyone need a QSO with TURKEY? If so TA2/N4EXR is on daily at 0300 GMT on 14.232 and 1530 GMT on 21.205 mHz. I've been working from Turkey for over a year now and have about 10 months to go.

If you can include me in your news letters please do.

Warm Regards, J. Glenn Whited, PSC Box 208, APO NY 09254

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*From the QRP operators of the world.*

After spending a weekend working From TA5 in Adana Turkey and talking to the local HAMs here, I found that unless the propagation is outstanding all the BIG GUNS in the states walk all over every one. I am working at (and a little above the ERP) max legal power of 400 ERP. *What ever happened to*

*only use the power needed to communicate???* While trying to work OX2 (local here) from TA5 I had a bad case of QRM from 4 W's on the east coast talking to each other. They were all 59+20 and the only other stateside I could hear the states was just at the noise level. . .

A lot of other countries out here do not allow the use of 1000W input. Here the max power output is 400 ERP on some bands. I believe The FCC is real nice place to do business with. Look at some of the things going on in TURKEY.

FREQ	POWER OUT (ERP)
144.000 - 146.000 Mhz	25 Watts NO SSB
***** NO 6 meters at all *****	
28.000 - 29.700 Mhz	50 CW 100 Voice
24.000 - 24.900 Mhz	10 CW ONLY
21.000 - 21.450 Mhz	100 CW 400 Voice
14.000 - 14.350 Mhz	100 CW 400 Voice
10.000 - 10.150 Mhz	100 CW 400 Voice
7.000 - 7.100 Mhz	100 CW 400 Voice
3.500 - 3.600 Mhz	50 CW 150 Voice
1.8068 - 1.816 Mhz	10 CW ONLY

Remember your theory 200 watts into a 3bd gain antenna is 400 watts ERP. SO using 400 watts into a gain antenna is illegal here..

To get a license we must do the following:

- First one must get a letter from the city mayor and the chief of police that the person in question is a good citizen and has NO police record (file).
- Now take the written test on electronics, radio laws, and english (like we learned in school not the way we speak ) and finally the morse code at 13 WPM and 100% copy.
- Now that the test is passed this person may operate a Ham radio station. ( you can use another ham's station, you don't have a station license yet!!!).
- To get a station license and set up a radio station you must be license by the TGM ( Turkish FCC ) and list the location you are requesting to set up your station at. This is the ONLY operating location and ALL the equipment you plan to use must be listed by serical number. To use a new radio the license



must be changed to include the new equipment.

**NOTE:**

- Failure to add new equipment or operating from someplace not on the station license is 1 ONE YEAR IN JAIL ( no fines here).
- Operating a HAM station with out a license is 3 THREE YEARS IN JAIL.
- There is NO mobile or portable operation AT ALL.
- You can not carry around radios without a license ( HT's ). The place you transmit from must have a station license and the equipment you are using must be listed by serical number on that same license.
- It only took me 18 months, permission from the Turkish Air Force Base Commander, U.S. Air Force Base Commander, and a trip to the head of the TGM to get on the air. SO How about giving the small guys a break and quit using so much POWER if you don't need it.

You can find me on 28.5000 and 29.135 1400Z until 2??Z.

*73's and good DXing, Steve, TA5/WA6LKS (NICE SHORT CALL)*

**The USSR, Glasnost comes to the Radio Scene**

Interesting things are happening to Amateur Radio in the Soviet Union. The Soviet Federation of Radiosport appears to be divid- ing into three separate organizations: Federa- tion of Radio Amateurs, Federation of Radios- port and Federation of Radio Constructors. It is the Central Radio Club of the USSR that is concerned with restructuring Amateur Radio.

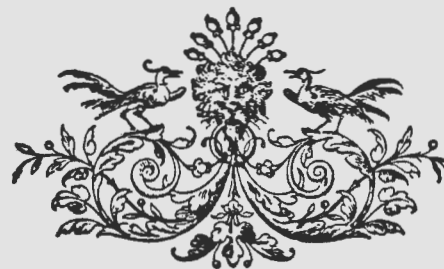
Some changes that already have come into effect are: Soviet Amateurs are permitted to contact any station in Israel, not just visitors, give their addresses during contacts and on their QSL cards, print photographs on QSL cards and receive mail directly. By the end of the year, further changes can be expected, such as the power limits raised to 500W for individuals and 1000W for club stations. But the really good news is that all Soviet

amateurs are now permitted to contact sta- tions in the capitalist countries. In the past, special permission for this was required, unless the operator was a Master of Sports. With the increased activity that can be expected, here is a simplified way of determining which Russian country you have worked. Look at the second letter of the prefix. All regular calls begin with U.

Country	Second Letter of Prefix
European RSFSR Numbers 1-6	A,N, V, W, or Z
Asiatic RSFSR Numbers 8,9,or 0	A, N, V, W, or Z
Franz Josef Land	UA1
Kaliningrad	UA2
Ukraine	B, T, or Y
Byelorussia	C
Azerbaijan	D
Georgia	F
Armenia	G
Turkmenistan	H
Uzbekistan	I
Tadzhikstan	J
Kirghizia	L
Moldavia	M
Lithuania	P
Latvia	Q
Estonia	R

Unfortunately, to every rule, there are excep- tions, and on occasion there are "special" calls to contend with.

*NZART - Break-in via KA6DXY*



## QSL Information for Chinese Stations

BY1BH	P.O. Box 1656,	Beijing
BY1BJ	P.O. Box 6111,	Beijing
BY1CKJ	P.O. Box 6207,	Beijing
BY1PK	P.O. Box 6106,	Beijing
BY1QH	P.O. Box 2654,	Beijing
BY1SK	P.O. Box 2916,	Beijing
BY4AA	P.O. Box 205,	Shanghai
BY4AJT	P.O. Box 5221,	Shanghai
BY4ALC	P.O. Box 4043,	Shanghai
BY4AOM	P.O. Box 227,	Shanghai
BY4AY	P.O. Box 5304,	Shanghai
BY4RB	P.O. Box 413,	Zhenjiang
BY4RN	P.O. Box 2405,	Nanjing
BY4SZ	P.O. Box 51,	Suzhou
BY4WNG	P.O. Box 1827,	Nanjing
BY5HZ	P.O. Box 804,	Hangzhou
BY5NC	P.O. Box 1033,	Nanchang
BY5QA	P.O. Box 507,	Fuzhou
BY5RA	P.O. Box 730,	Fuzhou
BY5RF	P.O. Box 209,	Fuzhou
BY5RT	P.O. Box 707,	Fuzhou
BY7HL	P.O. Box 105,	Changsha
BY7HY	P.O. Box 14,	Yueyang, Hunan
BY7KT	P.O. Box 1285,	Guangzhou
BY8AA	P.O. Box 607,	Chengdu
BY8AC	38 Guzhongsi St.,	Chengdu
BY9GA	P.O. Box 12,	Lanzhou
BY0AA	P.O. Box 202,	Wulumuqi

JARL News, Sept. 1988 via W6CF

## Past Meeting Minutes



Due to a screw up on the part of your editor and officers, the last few meeting minutes have not been published. Didn't notice you say? Well, your luck has just run out, now you have to read them. Excuse the inconvenience, but since they are quite an amount, they are being printed in smaller type.

## September NCDXC Board of Directors Meeting

The President, Jerry, W8MEP, called the meeting to order at 6:35 p.m. on September 25, 1988, at the home of W6VG. Present were Club officers KA6W, N6AN, K6MA, and K6TS.

The Board of Directors reviewed the following action items:

**International DX Convention Status:** W6TPH forwarded a status report to all Board members which was greatly received. Bill is doing a great job getting things underway for the April 89 Convention. Board members commend Bill and members of his Committees for their work.

**Membership Boundary Area:** W6VG and others researched the archives to determine the NCDXC Southern Boundary. The 1975 DCDXC By-Laws shows the southern boundary as 35 degrees lat. However, later editions of the By-Laws indicated 36 degrees lat. Somehow, a typing or transposition error occurred which went undetected until this year. The Board members voted to re-instate the 35 degree lat. as the NCDXC southern boundary.

**W6TI Repeater Controller:** The Board members discussed the "New Controller", Expansion and Data to Voice Converter. The Board recommends that the W6TI Repeater Chairman expedite the installation of the "New Controller". Repeater expansion will wait until some area requests service. Continue investigation of the Data to Voice Converter unless it is found to be of too great an expense.

**NCDXC Swap Shop:** The Board reviewed letters from several Club members that indicate a desire to include listing of computer items such as monitors, computers, printers, disk drives, TNC's, etc. The Board voted to approve Swap Shop Listing of computer items that would be applicable to DXer's use for their Amateur Radio Station. However, the Board also agreed that the NCDXC Swap Shop Manager should have the right to reject items he feels does not satisfy an Amateur Radio DXer's application.

**W6TI Repeater DX Announcement Procedures:** The Board discussed many facets of the W6TI Repeater operations. Members of the Board voted to re-state the following: The NCDXC Procedures Manual states the Club two-meter repeater's primary purpose is for the exchange of DX information. The secondary purpose includes communications among Club members to exchange technical information and news of general interest. It is further stated that the use of the repeater for "rag chewing", not of general interest, is discouraged; members are expected to QSY to an appropriate simplex channel or another repeater.

The purpose of the repeater is simply stated, yet there continues to be flagrant violations and rag chewing of a personal nature continues unabated. Now that the sunspots and band conditions are the best they have been in years, it is now more important that we adhere to the principles of good repeater usage and QSY elsewhere for our rag chewing.

Another facet of repeater usage is the manner in which DX announcements are made. There is a wide variety of verbal DX formats being used, most of which do not follow the prescribed method as stated in the Procedures Manual. The proper way to make a DX announcement is to say: DX ANNOUNCEMENT, followed by BAND, MODE, and then DX CALL SIGN, FREQUENCY, and any other pertinent information concerning the DX Station. Such an announcement gets our attention, provides standardization, and gives us all the pertinent information we need to know.

The inclusion of the foregoing in the Board of Director Minutes is to reiterate the policies outlined in the NCDXC Procedure Manual and to provide a vehicle to request the Club membership to fully comply with. This policy will ensure better management of the Club two-meter repeater.

The Board discussed the purchase of a 1-KW Plaque for W1AW. This item will be brought up to the Club membership at the October meeting.

Membership renewal is still lagging. About 70 or more have not sent in their 88/89 dues.

Adjournment: The Board deferred review of NCDXC By-Laws and Procedures Manual until a later time because of the small number of Board members in attendance.

The Board meeting adjourned at 7:45 p.m.

*Respectfully Submitted, Thomas F. Jones, K6TS, Secretary NCDXC*

## NCDXC October Meeting Minutes

The October meeting of the NCDXC was held at Harry's Hofbrau, Palo Alto, on October 14, 1988. The President, Jerry, W8MEP, called the meeting to order at 7:35 p.m. Jerry extended a welcome to all of the visitors (most of the visitors were in attendance for first readings as NCDXC membership candidates). W7SW, Scotty Martin (NCDXC absent member), also visited after returning from overseas duty.

A brief report of up-coming contest information was given by Bob, K4UVT. Kip, W6SZN, reported for the W6TI repeater committee chairman that the Repeater up-grade was in Phase 3. Steve, W6MKM, gave a report on the Club Picnic which was held on Sept. 25th, at Coyote Point Park. All had a good time. The hidden transmitter, however, was not found.

Jerry outlined the last BOD meeting notes of interest. They were: Status of Club southern boundary (35 degrees); ARRL Donation of \$1,000 by members for KW Plaque at W1AW. A chairman is needed for this activity; Swap Shop listing change to include computer items/gear related to DXing, at discretion of Swap Shop Manager; Repeater DX Announcement Reporting Format which was endorsed by the BOD; 9 Band Award reporting date for current status was given as 30 October.

The July 1988 Elected Vice President, Dave Engle, KE6ZE, resigned to take over as Editor of the NCDXC DXer. The Club President and members of the BOD came up with a candidate with the necessary qualifications. He is Mr. Larry Souza, KG6GF. he was unanimously approved by the BOD and presented to the Club members for ratification and accepted. Welcome to the post of Vice President, Larry.

Stan, K6MA, gave a Treasurer's Report which was accepted by the Club members.

Tom, K6TS, NCDXC Secretary, gave second readings for: Fred F. Canham, K6YT; Robert Murphy, WB6OHH; and Alex Rabinovich, KI6EZ. All were voted into Club membership. Welcome to the new members.

First readings for NCDXC Membership were given for the following: Charles Alessi, W6IEG; Kenneth Crandall, W6XB; Henry Drechsler, KI6SC; Warren Edwards, WD6HDF; Thomas Farr, WJ6O; David Moser, WU6I; and Charles Southall, KI6YB.

Jerry asked the members if they wanted to have a Christmas party. A negative response was received. Therefore, a regular Club meeting will be scheduled for December.

The evening's program was a slide and talk presentation of Lloyd and Iris Colvin's last DX-pedition to Mexico, Nepal, Burma, Buhtan, Malaysia, Sri Lanka, and Indonesia. The slide presentation was excellent and their description of country and ham radio conditions was very interesting. They were unable to obtain licenses in several locations which hampered DX operations. Well done, Lloyd and Iris.

Jerry announced that the next BOD meeting will be on November 11, 1988. The meeting was closed at 9:40 p.m.

*Respectfully submitted, Thomas F. Jones, K6TS, NCDXC Secretary*

## NCDXC Board of Directors Meeting, 11 November

The NCDXC BOD meeting was called to order at 5:20 p.m. at the home of W6VG. Present were Club officers W8MEP, N6AN, K6RK, K6MA, KG6GF, KA6W, W6VG, and K6TS. KB6BW also attended to present his new Rolex Roster file.

### *Agenda Items for BOD Discussion*

Dating of the DXer of the Year Award Plaque: Expressed concern over the date shown on the plaque existed. The BOD agreed to date future plaques as "for the year 19xx".

Sending copies of DXer to other Clubs, Organizations, or Individuals: We send copies of the DXer to other organizations and individuals. To date, only the So. California DX Club sends us copies of their Club Newsletter. Since we are hosting the DX Convention at Visalia in 89, it was believed that additional exposure is needed. The cost of sending the DXer to other individuals/organizations is approximately \$250/year. At the present time, the BOD believes this cost is warranted. At a future date, this belief may change or be altered.

Sending NCDXC Roster to Non-Members: The Club Roster contains addresses and phone numbers of Club members that should not be disseminated to any individual unless approved by the members. The Club does provide a listing of call signs for DX station identification for the California Award. This listing will be sent in lieu of a complete Club Roster.

NCDXC QSL Card Printing Problem: Over-printing of club members call sign and address continues to be a problem. KA6W agreed to investigate the problem and to find a solution.

Swap Shop - W6TI 2-Meter Net: Steve, KZ6Z, has resigned as manager of the Swap & Shop activity. He has done an outstanding job over the past years. A replacement is needed to fill this vacancy.

220 Mhz FCC Proposal: It was proposed that the NCDXC prepare a letter of protest concerning the deletion of 200 Mhz frequencies. The BOD determined that individual responses to the Senate Committee or Senator would have more weight than a blanket Club protest letter. We urge individuals to prepare their letters and forward them to the Senator/Senate Committee expressing their concerns.

Non-payment of 88/89 Dues: Several Club members have not paid their yearly dues. An effort to contact these individuals was initiated. Additional contacts to delinquent members will continue until the end of the year.

W6TI Repeater: The W6TI Repeater is still on the air. However, the update of equipment is at a standstill. W8MEP and KA6W will call a meeting of the Repeater Committee and try to resolve this problem. One member of the Repeater Committee has resigned and an additional person is required for this job.

Proposed Honorary Membership Appointment: N6DJM proposed Honorary Membership status for ZLIAMO, Ron Wright. The BOD took no action because the proper format was not followed for this proposal. The NCDXC Secretary will contact Morris and advise him of the proper procedure per NCDXC Manual, Section 1-108.

Proposed New Category of NCDXC Membership: W8MEP proposed a new category of membership for foreign amateurs. The Club membership boundary is set by the By-Laws & Procedures Manual. Foreign Amateurs cannot meet these requirements. Therefore, it was concluded that another category of Club membership was not warranted.

Net Night DX Advisory: W6LQC has done an outstanding job over the past years in providing the latest DX activity for Club members. In his absence, members of the Club try to advise other members of DX activity. An additional person is needed to assist Phil and provide information when he is absent as a back-up. AG6Q has agreed

with his concept.

#### *Other BOD Discussion Items:*

December Meeting: members bring your wives or girl friends. The BOD has agreed to pay for a carafe of wine or beer for each member's table during the December meeting. A small favor will be provided for each attending lady.

Lack of BOD Minutes in DXer: The last two DXer's did not contain BOD Minutes. This was due to a misunderstanding between the President/Secretary and the DXer Editor. Missing BOD Minutes will be inserted into coming issues of the DXer. A SNAFU also occurred to the Secretary's computer when several files were dumped. He is learning the hard way. Tom can reconstruct the missing BOD minutes from his notes.

ARRL KW Plaque (Building Fund): ARRL KW Fund is underway. Members wishing to contribute to this fund can send their money to Stan, K6MA.

Rolex File System: KB6BW displayed his Rolex Roster File to the BOD. This method solves several problems for inserting rapid changes to the Roster Files. The BOD agreed to pay for the new Rolex File System at a cost of approximately \$35.00 for Data Base Manager use.

The BOD adjourned at 6:30 p.m. and drove to Harry's Hofbrau for the November Club Meeting.

*Respectfully Submitted, Thomas F. Jones, NCDXC Secretary*

## November General Meeting Minutes

The November meeting of the NCDXC was held at Harry's Hofbrau, Palo Alto, on November 11, 1988. The President, Jerry, W8MEP, called the meeting to order at 7:30 p.m. Jerry and Larry, KG6GF, our VP, welcomed our DX guests, W3JBY; 4X4VT, Amy; W7RM, Rush Drake; K1LAC, from N.H.; and AA6EX. A moment of silence was given for ex-club member W6SJC who recently became a silent key.

Jim Maxwell, W6CF, gave a report on the DC Advisory Committee happenings concerning MV Island 4J1SS, JD1 Okino, and the latest effort for 3D2XX. Jim stated that voting for country status was in progress and the results could occur at any time.

Steve, W6MKM, continues to be successful with the raffle. This month's big winner was Stan, K6MA, who walked off with a new Vibroplex Iambic Paddle. Then the Blow--Steve, W6MKM, the ticket seller, won the second prize which was an ARRL Antenna Handbook.

I guess we should all give a big shout to George, WA6O, as being the best dressed DXer in attendance (including tie & suit coat). Don't know what George's final country score is but he looked dapper.

W6TPH was not able to attend the November meeting. However, his reports of the Convention Committee results show a great deal of effort is being expended.

WB6ZFX resigned from the Repeater Committee and his resignation really leaves a gap in the Committee staff. A replacement is needed.

Steve, KZ6Z, the Club Swap Shop Manager, resigned after three glorious years. Many thanks, Steve, for a job well done. We will miss your great efforts. Now fellows, a replacement Swap Shop Manager is needed. Stand UP someone!!!!

Stan, K6MA, gave a brief Treasurer's Report and there are no surprises and our State and Federal reports have been filed by Vince Chin, the NCDXC Accountant.

A first reading was held for KI6UT, Chuck Louda, from Livermore, and SEVEN--yes SEVEN second readings were presented to Club members for entry into the Club. The names of these DXers is listed elsewhere in the DXer. Welcome to you all.

Our President, Jerry, presented a Certificate of Merit Award to

W6CF for his outstanding effort and performance as Editor of the Club DXer for so many years.

KA6W, Ted, our past President, presented a program on Real DX Antennas, for 3.5 and 1.8 Mhz. Included were slide pictures of Ted's new tower and small loop antenna designs for 160, 80, and 40-meter design considerations. Well done, Ted. Let's hope that your low band DXing efforts are expanded.

NOTICE--Next month's meeting will be held at Harry's Hofbrau and it features "Ladies Nite". Bring your spouse or girl friend/boy friend if it is appropriate. The Club will support a carafe of wine and/or beer for each dinner table. Our featured speaker will be none other than the Great Jim Maxwell treating us with some interesting DX feats -- whatever that is. See you next December at Harry's.

Jerry, our President, adjourned the meeting at approximately 9:50 p.m.

*Respectfully submitted, Thomas F. Jones, NCDXC Secretary*

## THE NORTHERN CALIFORNIA DX CLUB, INC. PO BOX 808, MENLO PARK, CA 94026

The *DXER* is the bulletin of the NCDXC and is published monthly for the benefit of its members. Permission to use any portion of this publication is hereby granted, provided credit is given to the *DXER*.

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Vice President: Larry Souza, KG6GF  
Secretary: Tom Jones, K6TS  
Treasurer: Stan Kuhl, K6MA  
Director: Ted Algren, KA6W  
Director: Hal Godfrey, N6AN  
Director: Chuck Patterson, K6RK

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#### **NCDXC REPEATER W6TI/R**

Input 147.36 Mhz; Output 147.96 Mhz; Simplex 147.45 Mhz  
Trustee: Bob Vallio, W6RGG  
Repeater Committee Chairman: Lou Beaudet, K6TMB

#### **NCDXC THURSDAY NIGHT NET**

On W6TI/R Thursday at 8:00 PM local time.

Operations Manager: Ralph Hunt, AG6Q

DX News: Phil Garrahan, W6LQC

Propogation: Al Lotze, W6RQ

Contest News: Bob Dorse, K4UVT

Westlink: Dave Bottom, KD6AZ

Swap Shop: Steve Munro, KZ6Z

QSL Information: Jan O'Brien, K6HHD

#### **NCDXC DX BULLETIN BROADCASTS**

Trustee: Bob Vallio, W6RGG

W6TI, the NCDXC memorial station broadcasts DX bulletins each Sunday at 1800 PST (Monday 0200 UTC) on 7.015 Mhz and 14.002 Mhz.





The AB90 Honor Roll Analysis - June 1988

Mixed HR	1717	Calls on 1 HR	1413
Phone HR	841	Calls on 2 HRs	535
CW HR	89	Calls on 3 HRs	56
<b>Total of 3 HRs</b>	<b>2647</b>	<b>Unique Calls on at least 1 HR</b>	<b>2004</b>

2004 Unique Calls from 3 HRs

Unique HR			USA Calls - Unique HR			
Total	%	Rank	Total	%	Rank	
NA	1290	64.4	1	107	8.7	6
EU	459	22.9	2	148	12.0	3
AS	164	8.2	3	71	5.8	9 tie
SA	51	2.5	4	218	17.7	1
OC	30	1.5	5	120	9.8	5
AF	10	0.5	6	186	15.1	2
			7	71	5.8	9 tie
			8	106	8.6	7
			9	131	10.6	4
			0	73	5.9	8
			<b>Total</b>	<b>1231</b>	<b>100.0</b>	

Mixed HR By Continent

	317	316	315	314	313	312	311	310	309	308	Total	%	Rank
NA	161	133	116	115	102	108	98	106	90	114	1143	66.6	1
EU	43	35	41	54	42	44	20	32	19	24	354	20.6	2
AS	6	9	12	17	19	23	21	21	18	16	162	9.4	3
SA	6	3	3	5	3	5	5	1	0	1	32	1.9	4
OC	0	5	3	2	2	2	1	1	2	2	20	1.2	5
AF	1	1	1	1	1	0	0	1	0	0	6	0.3	6
<b>Total</b>	<b>217</b>	<b>186</b>	<b>176</b>	<b>194</b>	<b>169</b>	<b>182</b>	<b>145</b>	<b>162</b>	<b>129</b>	<b>157</b>	<b>1717</b>	<b>100.0</b>	

USA Calls - Mixed HR

	317	316	315	314	313	312	311	310	309	308	Total	%	Rank
1	14	14	7	8	8	8	7	11	9	6	92	8.4	6
2	34	10	12	9	10	13	10	10	20		137	12.5	3
3	6	4	7	5	9	7	7	5	8	5	63	5.7	9 tie
4	25	24	26	16	22	18	20	14	14	20	199	18.1	1
5	8	7	11	11	8	15	13	9	11	13	106	9.6	5
6	31	24	15	18	18	21	12	15	10	6	170	15.5	2
7	9	9	4	11	3	1	8	9	6	3	63	5.7	9 tie
8	19	14	9	10	8	6	6	7	2	10	91	8.3	7
9	10	16	7	15	8	11	9	11	13	12	112	10.2	4
0	5	4	10	8	4	7	3	10	6	9	66	6.0	8
<b>Total</b>	<b>161</b>	<b>126</b>	<b>108</b>	<b>111</b>	<b>97</b>	<b>104</b>	<b>98</b>	<b>101</b>	<b>89</b>	<b>104</b>	<b>1099</b>	<b>100.0</b>	

Phone HR By Continent

	317	316	315	314	313	312	311	310	309	308	Total	%	Rank
NA	44	54	44	53	47	46	41	45	54	62	490	58.2	1
EU	13	19	22	34	19	26	24	27	20	22	226	26.9	2
AS	2	1	5	4	10	11	9	8	8	4	62	7.4	3
SA	2	4	6	7	2	3	5	2	4	1	36	4.3	4
OC	0	2	4	2	3	3	1	0	0	2	17	2.0	5
AF	1	1	0	0	4	0	1	0	2	1	10	1.2	6
<b>Total</b>	<b>62</b>	<b>81</b>	<b>81</b>	<b>100</b>	<b>85</b>	<b>89</b>	<b>81</b>	<b>82</b>	<b>88</b>	<b>92</b>	<b>841</b>	<b>100.0</b>	

USA Calls - Phone HR

	317	316	315	314	313	312	311	310	309	308	Total	%	Rank
1	6	3	4	3	2	4	7	2	5	3	39	8.6	7
2	7	2	6	4	8	4	3	2	6	7	49	10.8	4
3	3	4	2	1	1	3	1	6	4	0	25	5.5	10
4	4	15	7	6	8	7	8	5	10	7	77	16.9	1
5	2	4	4	1	5	3	2	9	4	9	43	9.7	5
6	6	9	5	11	7	11	6	5	8	2	70	15.2	2
7	4	1	1	4	4	2	2	4	4	6	32	7.0	8
8	3	6	2	6	2	6	3	5	2	6	41	9.0	6
9	3	6	5	6	5	3	4	3	5	10	50	11.0	3
0	4	0	3	9	2	0	3	2	2	4	29	6.4	9
<b>Total</b>	<b>42</b>	<b>50</b>	<b>39</b>	<b>51</b>	<b>44</b>	<b>43</b>	<b>39</b>	<b>43</b>	<b>50</b>	<b>54</b>	<b>455</b>	<b>100.0</b>	

CW HR By Continent

	313	312	311	310	309	308	307	306	305	304	Total	%	Rank
NA	2	4	2	9	4	10	2	9	10	5	57	64.0	1
EU	0	1	0	4	3	2	3	0	2	1	16	18.0	2
AS	0	0	0	0	3	1	1	1	5	3	14	15.7	3
SA	0	0	0	1	0	0	0	0	0	1	2	2.3	4
OC	0	0	0	0	0	0	0	0	0	0	0	0.0	5 tie
AF	0	0	0	0	0	0	0	0	0	0	0	0.0	5 tie
<b>Total</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>14</b>	<b>10</b>	<b>13</b>	<b>6</b>	<b>10</b>	<b>17</b>	<b>10</b>	<b>89</b>	<b>100.0</b>	

USA Calls - CW HR

	313	312	311	310	309	308	307	306	305	304	Total	%	Rank
1	0	0	0	2	0	1	1	0	3	0	7	12.7	4
2	0	1	1	0	0	1	0	2	1	0	6	10.9	5
3	0	0	0	0	1	1	0	0	0	0	2	3.6	9
4	0	2	0	2	0	0	0	1	1	2	8	14.6	3
5	0	0	0	0	1	1	0	1	1	0	4	7.3	7
6	1	0	0	1	1	1	0	1	0	0	5	9.1	6
7	0	0	0	0	0	0	0	0	0	1	1	1.8	10
8	0	1	0	1	0	1	1	2	3	0	9	16.4	2
9	1	0	1	2	0	3	0	1	0	2	10	18.2	1
0	0	0	0	1	1	0	0	1	0	0	3	5.4	8
<b>Total</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>9</b>	<b>4</b>	<b>9</b>	<b>2</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>55</b>	<b>100.0</b>	

56 Calls on all 3 HRs

dj2bw	dl6en	g3kma	i2kmg	jalbk	jalbwa	jalely	jalifp
jaljrk	jflpjk	jhlifa	jrlfys	la8cj	py2tm	py7zz	sm0aju
sm5bhw	tg9nx	on5nt	oz3y	klmem	klmm	wlfz	wljr
wlng	k2fl	k2tqc	k2uo	n2kw	w2fp	w2mig	w3ap
k4pi	n4jf	n4mm	n4nx	n4ww	w4vq	k4xo	k5ur
aa6aa	k6ga	w6pt	aa7a	k8dyz	k8nw	w8ah	w8rt
k9mm	w9bw	w9dwq	w9sfr	w9zm	w9zr	n0rr	w0sr

36 USA Calls on all 3 HRs

klmem	klmm	wlfz	wljr	wlng	k2fl	k2tqc	k2uo
n2kw	w2fp	w2mig	w3ap	k4pi	n4jf	n4mm	n4nx
n4ww	w4vq	k4xo	k5ur	aa6aa	k6ga	w6pt	aa7a
k8dyz	k8nw	w8ah	w8rt	k9mm	w9bw	w9dwq	w9sfr
w9zm	w9zr	n0rr	w0sr				

36 USA Calls on all 3 HRs by Call Area

Area	#	Rank
1	5	4
2	6	2 tie
3	1	8 tie
4	7	1
5	1	8 tie
6	3	6
7	1	8 tie
8	4	5
9	6	2 tie
0	2	7

Comparison of Distribution of Mixed HR with Distribution of Amateur Population by Call Area in 1988 Callbook

Area	% Population	% Mixed HR	Over Representation
1	6.0	8.4	+2.4*
2	9.3	12.5	+3.2*
3	6.2	5.7	-0.5
4	18.7	18.1	-0.6
5	10.3	9.6	-0.7
6	14.5	15.5	+1.0
7	9.5	5.7	-3.8#
8	8.8	8.3	-0.5
9	8.0	10.2	+2.2*
0	8.7	6.0	-2.7#
Total	100.0	100.0	0.0

\* The second, first, and ninth call areas seem clearly over represented.

# The seventh and zero call areas seem clearly under represented.

Break-Down of Mixed HR USA Calls by type

W 1x3	284	W 1x2	275
K 1x2	181	K 1x3	116
N 1x2	96	WA 2x3	38
WB 2x3	25	WD 2x3	1

Pre-1977 Calls 1016

A 2x1	25	A 2x2	8
K 2x1	26	N 2x1	7
W 2x1	4	K 2x2	9
N 1x3	3	KA 2x3	1

Post-1977 Calls 83

1099

Average Rank of Call Area on 3 HRs

Area	Mixed	Phone	CW	Average	Rank	Rank by Population
1	6	7	4	5.7	6 tie	10
2	3	4	5	4	4	5
3	9.5	10	9	9.5	10	9
4	1	1	3	1.7	1	1
5	5	5	7	5.7	6 tie	3
6	2	2	6	3.3	3	2
7	9.5	8	10	9.2	9	4
8	7	6	2	5	5	6
9	4	3	1	2.7	2	8
0	8	9	8	8.3	8	7

Seven Countries Deleted from DXCC List 1978 to 1988

Country	Date Deleted
HK0 Bajo Nuevo	9 17 81
HK0 Serrana Bank	9 17 81
JD1 Okino Tori-shima	11 30 80
KZ5 Canal Zone	9 30 79
VS9K Kamaran Island	3 10 82
BZ4 Neutral Zone	12 25 81
Geyser Reef	2 28 78

Little Known Trivia:

Top of the Honor Roll is an impressive feat. Only one of the following well-known DXers has all 317 countries for Mixed HR?

A. W0ZV B. ON4UN C. K5UR D. OH2BH ANSWER: OH2BH

It is possible to work them all with a General Class License. Which of the following stations with 350 or more countries and all 317 for Mixed HR holds a General Class Amateur License according to the 1988 Callbook?

A. W8BKP B. W4DR C. K2TQC D. W8AH ANSWER: W8BKP



DXCC Honor Roll Quiz

1. Which Call Area is the most over-represented when comparing the Mixed HR statistics with the Amateur Population Distribution from the 1988 Callbook?  
A. first      B. second      C. fourth      D. ninth
2. Which Call Area is the most under-represented when comparing the Mixed HR statistics with the Amateur Population Distribution from the 1988 Callbook?  
A. first      B. third      C. seventh      D. zero
3. Which Call Area has more members of the CW HR than any other?  
A. fourth      B. fifth      C. sixth      D. ninth
4. Which Call Area has more members in the Top Bracket of the Mixed HR than any other?  
A. second      B. fourth      C. fifth      D. sixth
5. Which Continent has no members in the Top Bracket of the Mixed HR?  
A. Asia      B. South America      C. Oceania      D. Africa
6. The total number of calls obtained by adding the Mixed, Phone, and CW HRs together is 2647. How many different calls does this represent when those on more than one HR are only counted once?  
A. more than 2400      B. between 2101 and 2400  
C. between 1800 and 2100      D. less than 1800
7. How many calls appear on all three HRs?  
A. more than 50      B. between 26 and 50  
C. between 10 and 25      D. less than 10
8. Which bracket of the Mixed HR is the most popular and is the only one to have over 200 members?  
A. 317      B. 310      C. 309      D. 308
9. How many countries have been deleted from the DXCC Countries List in the last 10 years?  
A. 15 or more      B. 10 to 14      C. 5 to 9      D. less than 5
10. Which two Continents have more members of the Phone HR than the Mixed HR?  
A. Oceania and Asia      B. South America and Oceania  
C. Oceania and Africa      D. Africa and South America

DXCC Honor Roll as of June 1988

Total

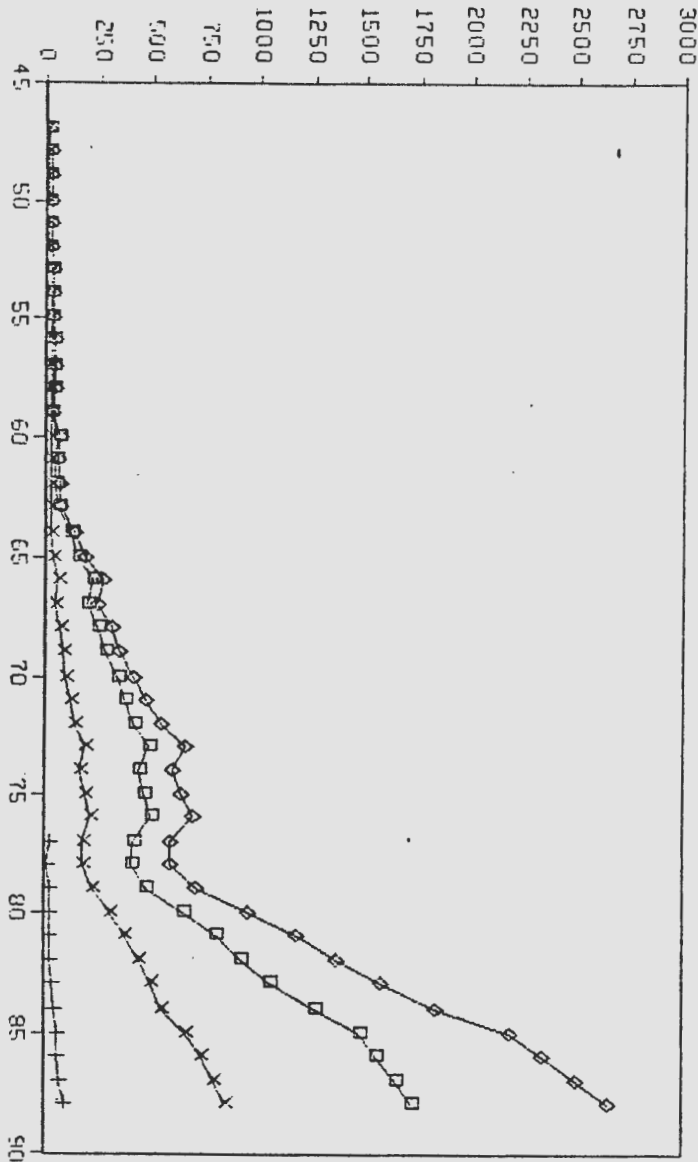
Mixed

Phone

CW

Date

WVCF



Based in part on June 1988 issue of QST  
and  
AB90 Honor Roll Analysis - June 1988

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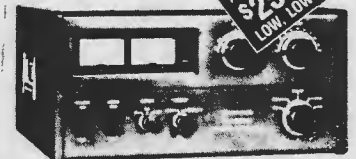
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